THE PORT AUTHORITY OF NY & NJ Memorandum 33

WTCI-514-P

J.M.

Refer To	Date	Noted By	Date
Return To		File	

Frank Boyce, Asbestos Project Coordinator, World Trade Center
Harry R. Pool, Jr.
May 29, 1986

ct: ASBESTOS BULK SAMPLING - TWO WORLD TRADE CENTER - 41st FLOOR MECHANICAL EQUIPMENT ROOM

ence:

To: N. Budeiri, R. Fagin, M.D., G. Maas, D. Montalbano, E. Monteverde

File asbestos

As you requested, samples of possible asbestos containing insulation were obtained from the forty first floor M.E.R. of Two World Trade Center. Collected samples were analyzed following the United States Environmental Protection Agency Procedure 600/M4-82-020. In this area, a total of thirty seven samples were collected and analyzed. The following indicates asbestos positive locations:

Sample No.	Location	Result
2 WTC-928	Fluffy Insulation Material On Wall From Right Side Of ACS 41.3.S	3% Chrysotile Asbestos
2 WTC-930	Cementitious Insulation Material On Elbow From Pipe Of ACS 41.3	1% Amosite Asbestos
2 WTC-935	Fluffy Insulation Material On Column In N.E. Return Air Shaft	5% Chrysotile Asbestos
2 WTC-936	Cementitious Insulation Material On Elbow Of Vertical Pipe Right Side Of ACS 41.11	5% Chrysotile Asbestos
2 WTC-940	Fluffy Insulation Material On Exposed Beam Above ACS 41.16	5% Chrysotile Asbestos
2 WTC-944	Fluffy Fallout Material From Ceiling	3% Chrysotile Asbestos
2 WTC-945	Plaster Like Trowled On Insulation Material On Coupling Of Chilled Water Line Of ACS 41.6	1% Amosite Asbestos

While this memorandum was being prepared, the seventh and eighth floor M.E.R. of Two World Trade Center was in the process of being surveyed and sampled. Upon laboratory analysis, results of that sampling procedure shall be forwarded to your office.

If you have any questions please call me at PATHside 201-963-7476.

Harry Pool

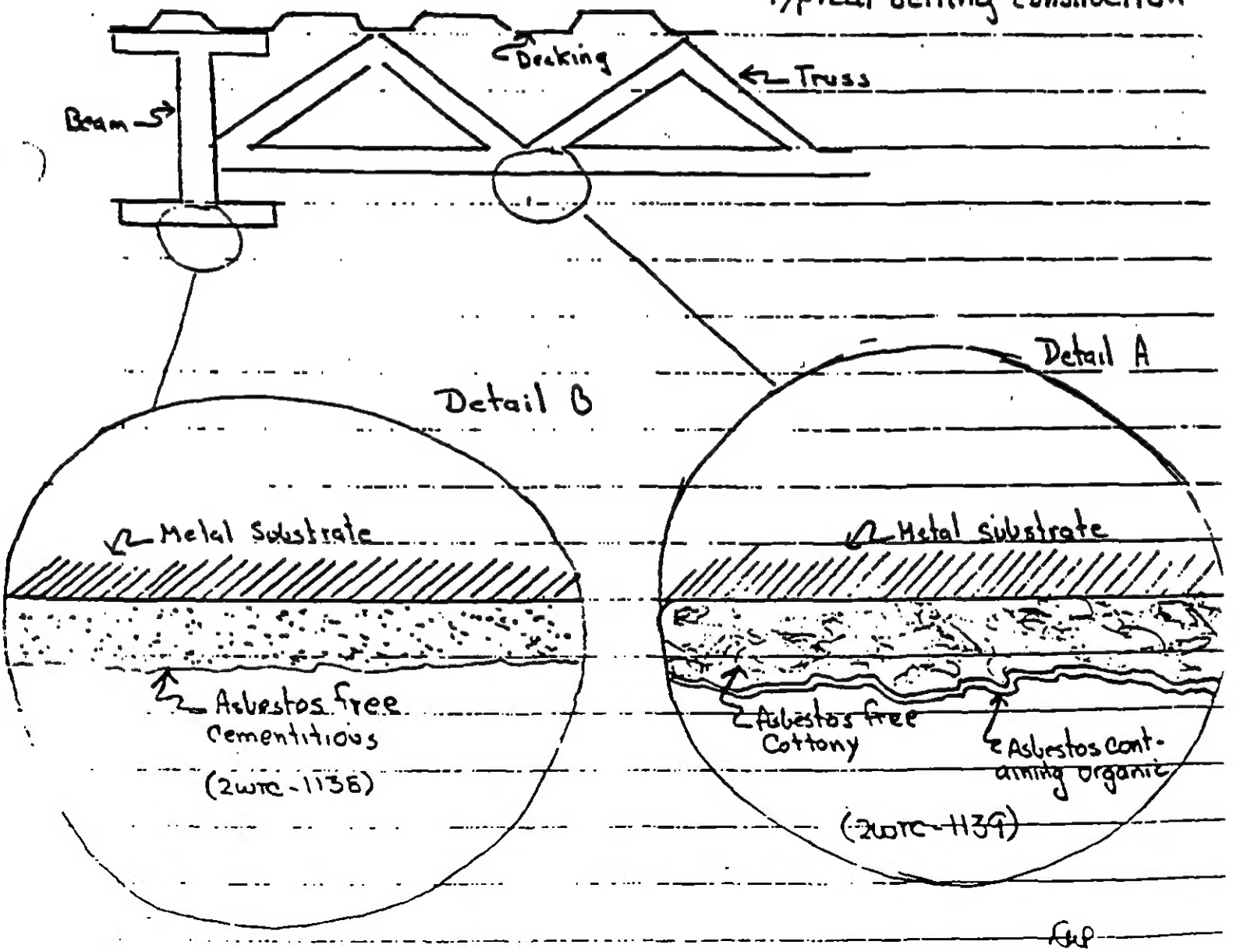
Harry R. Pool, Jr., Supervisor
Environmental Programs
Inspection and Safety Division

PLAINTIFF'S EXHIBIT

PT/daw

The asbestos containing material (>60% chrysotile in organic binder) appears as a thin layer, one-eighth of an inch apx thichness, covering a thick mat of fiberous glass on the structural members of the MER ceiling. Detail "A". The lower flange of the I-beams is coated with troweled on. asbestos free material. Detail "B"

Typical ceiling construction



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THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

M E M O R A N D U M

TO: Frank Boyce, Asbestos Project Administrator, World Trade Center
FROM: Harry R. Pool, Jr.
DATE: June 2, 1986
SUBJECT: ASBESTOS BULK SAMPLING - ONE WORLD TRADE CENTER

REFERENCE:

COPY TO: N. Budeiri, R. Fagin, M.D., D. Montalbano, E. Monterverde, G. Maas, P. Wolfrom

As you requested, samples of possible asbestos containing materials were collected from the seventh and eighth floor Mechanical Equipment Room, and the forty first floor Mechanical Equipment Room. From the seventh and eighth M.E.R., a total of sixty four samples were obtained. From these samples, the following asbestos positive sites were disclosed:

Sample No.	Location	Result
WTC-549	Cottony Sprayed-On Insulation Material on Column in Fan Room	20% Chrysotile Asbestos
WTC-550	Cottony Sprayed-On Insulation Material on Column in Fan Room	20% Chrysotile Asbestos
WTC-551	Cottony Sprayed-On Insulation Material on Column in Fan Room	20% Chrysotile Asbestos
WTC-552	Cottony Sprayed-On Insulation Material on Column in Fan Room	20% Chrysotile Asbestos
WTC-561	Cementitious Insulation Material On Firewall in Fan Room	10% Chrysotile Asbestos
WTC-573	Plaster-Like, Trowled On Insulation Material On Column In Fan Room	15% Chrysotile Asbestos
WTC-574	Cottony Sprayed-On Insulation Material On Column In Fan Room	25% Chrysotile Asbestos
WTC-575	Plaster-Like, Troweled On Insulation Material On Column In Fan Room	3% Chrysotile Asbestos
WTC-576	Cottony Sprayed-On Insulation Material On Column In Fan Room	15% Chrysotile Asbestos

WTC-578	Cottony Sprayed-On Insulation Material on Beam Above ACS 7.8	20% Chrysotile Asbestos
WTC-579	Plaster-Like, Troweled On Insulation Material On Beam Above ACS 7.8	15% Chrysotile Asbestos
WTC-580	Cottony Sprayed-On Insulation Material On Beam Access Area Next to ACS 7.8	1% Amosite and 15% Chrysotile Asbestos
WTC-581	Cottony Sprayed-On Insulation Materials On Beam Ceiling Access Area Next To ACS 7.8	20% Chrysotile Asbestos
WTC-582	Cottony Fallout Material On Duct Access Ladder Next To ACS 7.8	25% Chrysotile Asbestos
WTC-590	Cottony (Boardering On Cementitious) Insulation Material On Column In Fan Room	60% Chrysotile Asbestos
WTC-602	Cottony Fallout Material On Cement Slab In Fan Room	50% Chrysotile Asbestos
WTC-603	Cottony Sprayed-On Insulation Material On Column In Fan Room	40% Chrysotile Asbestos
WTC-604	Cementitious Troweled On Insulation Material On Beam In Fan Room	20% Chrysotile Asbestos
WTC-605	Cementitious Pipe Insulation Material On 12 Inches OD x 20 FT Suspended Pipe In Fan Room	10% Amosite and 30% Chrysotile Asbestos
WTC-606	Cottony Sprayed-On Insulation Material On Column In Fan Room	30% Chrysotile Asbestos
WTC-608	Cottony Sprayed-On Insulation Material On Column In Fan Room	20% Chrysotile Asbestos
WTC-609	Cottony Sprayed-On Insulation Material On Column In Front Of Fan In Fan Room	20% Chrysotile Asbestos

The remaining forty two samples collected from pipe and elbow insulation consisted of calcium carbonate, fiberglass, mineral wool, and gypsum. No asbestos was identified.

From the forty first floor H.E.R., a total of were obtained. From these samples, the following asbesto disclosed:

Sample No.	Location
WTC-704	Troweled on Cementitious Pipe Insulation On Pump Near ACS 41.9
WTC-713	Cementitious Insulation Material On Coupling Near S.W. 03

As of this date, twenty two more samples are in awaiting analysis. Upon laboratory confirmation, a follow- forwarded.

If you have any comments, please call me at PAT

Harry R. P sor
Environment
Inspection sion

PT/daw

file
WTC-7th
+ 41st MERs
ABATEMENT Cont.

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

M E M O R A N D U M

TO: Thomas Cancelliere, Assistant Manager, World Trade Center Operations
FROM: Harry R. Pool, Jr.
DATE: October 20, 1986
SUBJECT: CONTRACT PSE-463, "CLEANUP AND DISPOSAL OF ASBESTOS DUST AND PARTICLES IN THE MECHANICAL EQUIPMENT ROOMS ON THE SEVENTH AND FORTY-FIRST FLOORS OF ONE WORLD TRADE CENTER"

COPY TO: S. Altman, N. Budeiri, B. Cape, P. Carbajal, M.D., C. Doronin, R. Fagin, M.D., J. Gertler, R. Hohenfeld, J. Hutnick, M. Kirshner, R. Linn, G. Maas, S. Magnus, T. McKelvey, L. Menno, D. Montalbano, E. Monteverde, A. Preschle, V. Strom, J. Verbist, L. Vernon, S. Van De Walle

Transmitted herewith for your review and the review of those copied is a draft copy of Contract PSE-463, "Cleanup and Disposal of Asbestos Dust and Particles in the Mechanical Equipment Rooms on the Seventh and Forty-First Floors of One World Trade Center".

The term of this contract is for ninety (90) days. The estimated cost for the ninety day term is $90,000.00.

Not included in the draft copy are the table of contents, the bid opening date, the facility inspection date and the actual World Trade Center contract number.

Please review and furnish comments, in writing, by November 10, 1986, in order that the contract schedule may be maintained and have comments considered prior to the contract being issued for bid.

If additional information is required regarding this contract, please contact Steve Kay, of my staff, at 201-963-7475.

Harry Pool

Harry R. Pool, Jr., Supervisor
Environmental Programs
Inspection and Safety Division

CC/daw

THE PORT AUTHORITY OF NY&NJ

Memorandum

To: Frank Boyce, Project Administrator, World Trade Center
From: Charles L. Agro
Date: July 20, 1990
Subject: ONE WORLD TRADE CENTER, 41ST FLOOR, MECHANICAL EQUIPMENT ROOM: IMMEDIATE RESPONSE CONDITION (IRC) NOTIFICATION

Copy To: K. Apgar, J.E. Davison, M. Denisen, M. Jakubek, J. Panebianco, H.R. Pool, Jr., P. Taylor

Relative to the Asbestos Management and Compliance Division's (AM&CD) asbestos re-survey at World Trade Center, the following site has been designated to be IRC as of Monday, July 9, 1990:

Location:	Area:
1 WTC 41st Floor M.E.R.	Near ACR 41.10

Air sampling was conducted at the above location(s) by the AM&CD, and all samples collected and analyzed were found to be within current federal standards.

An IRC exists if there is an unavoidable risk potential due to the disturbance of asbestos fallout material separated from initial installation, deteriorated condition of existing asbestos material, high risk of contact and/or the possibility of causing unacceptable levels of airborne asbestos fibers in areas frequented by employees and/or patrons. Air sampling is initiated in all areas rated as IRC. Re-designation of these locations will take place after remedial steps are taken to eliminate the Immediate Response Condition. Follow-up inspections and notifications related to these areas will occur as necessary.

We are available to provide you with any assistance you may need on this matter. If you have any questions, please contact me at JSTC 201-963-7473.

On Monday, July 9, 1990, notification have been made to Mr. Frank Boyce, Project Administrator, with recommendations presented for remedial action.

Charles L. Agro, Supervisor
Asbestos Operations
Asbestos Management and Compliance Division

MD/daw

USE BLAC. :, ONLY II

USE BLACK ...:, ONLY II

PORT AUTHORITY OF NEW YORK AND NEW JERSEY AIRBORNE FIBER SAMPLING PROGRAM

05/90

Abatement Related ⋈
If yes, then:
Baseline ..... [ ]
Monitoring .... ⋈
Final Air ..... [ ]

1 WTC AREA: 41st and 42nd MER DATE: 07/09/90

Sample Type: - Check one -		Cassette Size: - Check one -		Membrane Type: - Check one -		Pore Size: - Check one -		Analyzed by: - Check one -	
Environmental	⋈	25 mm	⋈	MCE	⋈	0.8 um	⋈	PCM	⋈
Personal	[ ]	37 mm	[ ]	PC	[ ]	0.45 um	[ ]	TEM	[ ]
Other _____	[ ]	Other _____	[ ]	Other _____	[ ]	Other _____	[ ]		

Contract No.: N/A

Job No.: N/A

Rotometer Number: 14

SAMPLE NUMBER	LOCATION / NAME	FLOW RATE (LITERS / MIN) INITIAL	FLOW RATE (LITERS / MIN) FINAL	TIME (24 HOUR FORMAT) ON	TIME (24 HOUR FORMAT) OFF	LAB NUMBER	RESULT (f/cc) *
WTC - 24473A	41st Level; Adjacent to access door; NEAR South West Return 25.58; ACR 41.10	10.0	10.0	09:39	13:07	25398	0.012
WTC - 24474A	Field Blank for sample # WTC-24473A	←			→	25399	N/A

COMMENTS: Possible TRC Area PLEASE EXPEDITE ASAP SO PROPER MEASURES CAN PROCEED (PCM)
Ceiling Fireproof material was previously bulk sampled, Believe it's positive.

ASBESTOS MANAGEMENT AND COMPLIANCE DIVISION REPRESENTATIVE(S): FRED C. MILTEER

H & CD; PA CONSULTANT YEMI BABATUNDE FIRM: K & D - NY Consultants

* Results reported as "LESS THAN" are for upper 95 % confidence interval (i.e., "EMPLOYERS TEST FOR CONFIDENCE").

B U C K S L I P

TO: Joseph Panebianco
FROM: Frank Boyce
DATE: March 29, 1990
SUBJECT: WTC - CONTRACT 115.224 - WORK ORDER # 999 K
- 74th FLR ONE WTC

REF:

COPY TO:

On Tuesday, 03/20/90, a fallout of fireproofing material occurred on the 74th Floor, One World Trade Center, during a telephone installation.

In order to clean-up the area, which contains ACM, I called Asbestos Control Services to perform this emergency work.

All clean-up procedures were in accordance with methods outlined by Phil Taylor and Mike Denisen.

All charges for this work should be against our WTC-999 work order as part of Contract 115.224.

Frank Boyce